SONY.

FM/AM Compact Disc Player

Operating Instructions _____ **US**

Owner's Record

The model and serial numbers are located on the bottom of the unit.
Record the serial number in the space provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CDX-C8850 Serial No. _____

For installation and connections, see the supplied installation/connections manual.

COMPACT
disc
DIGITAL AUDIO
TEXT **Voice Drive**

CDX-C8850

Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/ TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Welcome !

Thank you for purchasing the Sony Compact Disc Player. This unit lets you enjoy a variety of features by using either a supplied rotary commander or a wireless remote.

In addition to the CD playback and radio operations, you can expand your system by connecting an optional CD/MD unit*¹. When you operate this unit or connected optional CD unit with the CD TEXT function, the CD TEXT information will appear in the display when you play back a CD TEXT disc*².

*¹ You can connect to a CD changer and an MD changer.
*² A CD TEXT disc is an audio CD that includes information such as the disc name, artist name, and track names.
   This information is recorded on the disc.

You can select for the display language and vocalized comments of the voice guide in either English or French.

Voice Drive

Sony has developed a new function which contributes to safer driving.

In addition to our unique rotary commander, we now introduce a voice sensitive operating system Voice Drive which gives the driver voice control of the car audio.
Now, while keeping your eyes on the road, you can command operations with Voice Drive and confirm results with Voice Guide.

And you can also record your voice with the voice memo function. It will take a note for you when you see or think of something while you are driving.

Voice guide for safe driving

This unit has a voice guide function*. When the voice guide function is on, the unit gives vocalized comments on functions corresponding to the relevant button pushed. These comments can be vocalized in either English or French.

* Some optional power amplifiers may cause a break at the beginning of vocalized comments. When you connect an optional MD changer, the sound from the first MD may continue for a short time even after the vocalized comments about the second MD are announced.

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Location of controls

CDX-C8850

Refer to the pages for details.

1 SEEK/AMS (seek/Automatic Music Sensor/manual search/voice drive/voice memo select) control
9, 10, 11, 13, 15, 18, 27, 28, 29, 32, 33

2 MODE (band/unit select) button
12, 13, 26, 28, 31, 33

3 ▲ (eject) button (located on the front side of the unit behind by the front panel) 8

4 SOURCE (TUNER/CD/MD/TV) button
8, 12, 13, 18, 19, 20, 21, 22, 25, 26, 28, 31, 33, 35

5 Dial (volume/DSO level/equalizer level/listening position/front or rear speaker volume/subwoofer volume/balance)
7, 8, 14, 15, 18, 19, 20, 21, 22, 30
Dial usually functions as a volume control except in some adjusting modes.

6 SOUND button 18, 19, 20, 21, 22

7 DSPL/SA (display mode change/spectrum analyzer) button
9, 14, 15, 25, 26, 31

8 Display window

9 Reset button (located on the front side of the unit behind by the front panel)
6

10 OPEN button 6, 8, 36

11 LIST button
Station Memo 14, 15, 34
Disc Memo 30, 31
List-up 31, 34

12 OFF button* 6, 8

**13** Sensor for the wireless remote

14 SHIFT button
PLAY MODE 10, 11, 12, 13, 14, 28, 29, 30, 33
REP 10, 27
SET UP 7, 9, 25, 26
SHUF 10, 27

15 During radio reception:
Number buttons 13

During CD/MD playback:
Direct disc selection buttons 27

During TV reception:
Number buttons 33

* **Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turned off the engine.
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

4

Wireless remote (RM-X47)
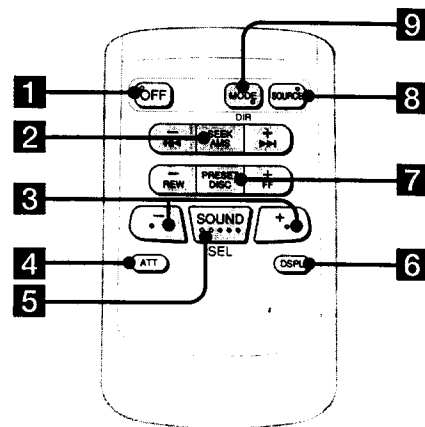
The buttons of the wireless remote have the same functions as those on the unit.

1 OFF button

2 SEEK/AMS button

3 ⊖⊕ buttons

4 ATT button
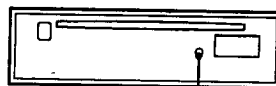
5 SOUND/SEL button

6 DSPL button

7 PRESET/DISC button
You cannot do manual search and manual tuning with the remote.

8 SOURCE button

9 MODE/DIR button

5

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ball-point pen.


Reset button

Notes
- Pressing the reset button will erase the clock and some memorized functions.
- When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc. If you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again.

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 Press (OFF).

2 Press (OPEN) to open the front panel, then slide the front panel to the right side, and pull out the left side of the front panel.
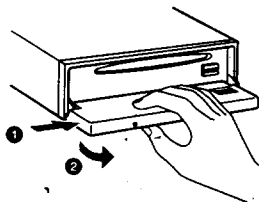
Notes
- Do not put anything on the inner surface of the front panel.
- Be sure not to drop the panel when detaching it from the unit.
- If you detach the panel while the unit is still on, the power will turn off automatically to prevent the speakers from being damaged.
- When you carry the front panel with you, put it in the supplied front panel case.

Attaching the front panel

Place the hole ⓐ in the front panel onto the spindle ⓑ on the unit as illustrated, then push the left side in.
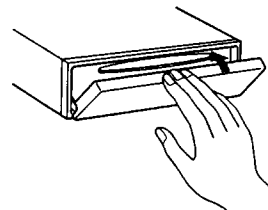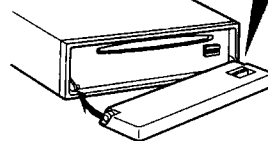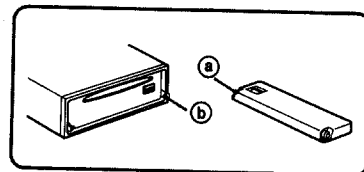
Notes
- Be sure not to attach the front panel upside down.
- Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.
- Do not press hard or put excessive pressure on the display windows of the front panel.
- Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.

Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds.

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Preparing the wireless remote

Installing the batteries
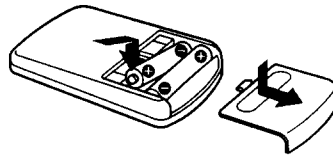
Two size AA (R6) batteries

Battery life is approx. six months although it depends on the way of use.

Notes on batteries

To avoid damage from battery leakage and subsequent corrosion:
— insert the batteries by matching the "+" and "–" on the batteries to the "+" and "–" in the battery compartment
— do not use an old battery with a new one, or different types of batteries together
— remove the batteries when you do not use the unit for a long period of time
— do not charge the batteries..

If any battery leakage occurs, replace the batteries with new ones after cleaning the battery compartment.

Notes on wireless remote

• Do not leave the wireless remote in a location near any heat sources, or in a place subject to direct sunlight (especially on the dashboard in summer etc.).
• When you park your car in direct sunlight, detach the wireless remote and place it in a location such as the glove-box, where it will not be subjected to direct sunlight.

Preparing the rotary commander

When you mount the rotary commander, attach the label shown in the illustration below.
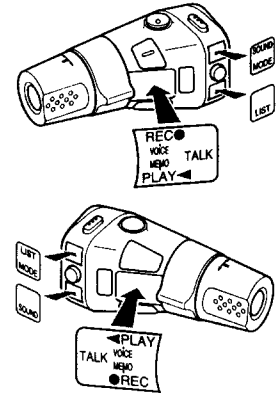
Setting the clock

The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

1 Press (SHIFT), then press ③ (SET UP) repeatedly until "Clock" appears.
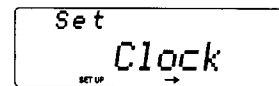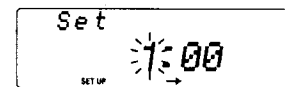
❶ **Press ⑤ (→).**

The hour digit flashes.

❷ **Set the hour.**

to go backward

to go forward

❸ Press ⑤ (→).

Se t

10:00
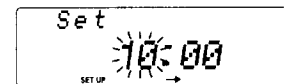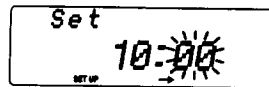
The minute digits flash.

❹ Set the minute.

to go backward

to go forward

Se t

10:08

2 Press (SHIFT).

10:08
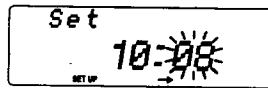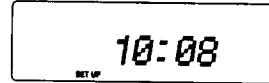
The clock starts.

3 Press (SHIFT).

After the mode setting is complete, the display returns to normal playback mode.
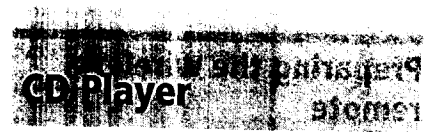
Listening to a CD

1 Press (OPEN) and insert the CD.

Playback starts automatically.

Labeled side up
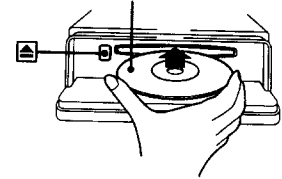
2 Close the front panel.

If a CD is already inserted, press (SOURCE) repeatedly until "CD" appears.

Elapsed playing time

CD

5   2. 15

Track number
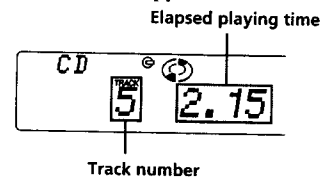
To	Press
Stop playback	(OFF)
Eject the CD	(OPEN) then ⏏

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Changing the display item

Each time you press (DSPL/SA), the item changes as follows:

```
      ┌─────────────────────────────┐
      │              ↓              │
      │   Elapsed playback time     │  •
      │              ↓              │
      │  Disc name*¹/Artist name*²  │
      │              ↓              │
      │       Track name*¹          │
      │              ↓              │
      │          Clock              │
      └─────────────────────────────┘
```

*¹ If you inserted a non-CD TEXT disc, "NO D.Name" or "NO T.Name" appears in the display.
*² If you play a CD TEXT disc, the artist name appears in the display after the disc name. (Only for CD TEXT discs with the artist name.)

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 25).

You can label CD and CD TEXT discs with a personalized name using the disc memo function, refer to "Labeling a CD" (page 30). However, if you use personalized labels, they will always take priority over the original CD TEXT information when such information is displayed.

Tips
• *If the name of the CD TEXT disc is too long, you can scroll it across the display by pressing (SHIFT), then ② (←).*
• *If you want to display the original CD TEXT information after labeling the CD TEXT disc with a personalized name, press (SHIFT), then ⑤ (→).*

Automatically scrolling a disc name — Auto Scroll

If the disc name/artist name or track name on a CD TEXT disc exceeds 10 characters and the Auto Scroll function is on, the disc or artist name automatically scrolls on the display as follows:
• *The disc name appears when the disc has changed (if the disc name is selected).*
• *The track name appears when the track has changed (if the track name is selected).*

If you press (DSPL/SA) to change the display item, the disc or track name of the CD TEXT disc is scrolled automatically whether you set the function on or off.

1 During playback, press (SHIFT).
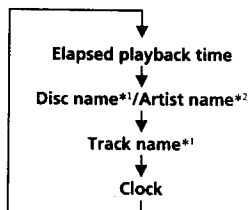
2 Press ③ (SET UP) repeatedly until "A.Scrl" appears.

3 Press ⑤ (→) to select "A.Scrl on."

4 Press (SHIFT).

To cancel Auto Scroll, select "A.Scrl off" in step 3 above.

Note
For some CD TEXT discs with extremely many characters, the following cases may happen:
— Some of the characters are not displayed.
— Auto Scroll does not work.

Locating a specific track — Automatic Music Sensor (AMS)

During playback, push the SEEK/AMS control up or down momentarily.

To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track — Manual Search

During playback, push the SEEK/AMS control up or down and hold.
Release when you have found the desired point.

To search forward

To search backward

Note
If "⎳⎳⎳⎳" or "⌐⌐⌐⌐" appears in the display, it means you have reached the beginning or the end of the disc and you cannot go any further.

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Playing a CD in various modes

You can play CDs in various modes:
- Repeat (Repeat Play) repeats the current track.
- Shuf (Shuffle Play) plays all the tracks in random order.

Playing tracks repeatedly
— Repeat Play

1 During playback, press (SHIFT).

2 Press ⑦ (REP) repeatedly until "Repeat 1" appears.
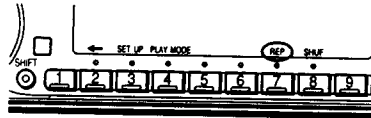
Repeat Play starts.

3 Press (SHIFT).

To return to the normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order
— Shuffle Play

1 During playback, press (SHIFT).

2 Press ⑧ (SHUF) repeatedly until "Shuf 1" appears.
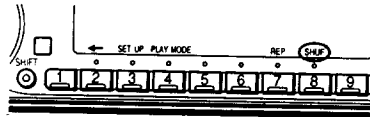
Shuffle Play starts.

3 Press (SHIFT).

To return to the normal playback mode, select "Shuf off" in step 2 above.

Creating a program
— CD Program Memory

You can play the tracks in any order you want by making your own program. You can select up to 24 tracks for a program. You can store the programs in memory.

1 During CD playback, press (SHIFT), then press ④ (PLAY MODE) for two seconds.

2 Push the SEEK/AMS control up or down to select the track you want.

3 Press ⑥ (ENTER) momentarily.
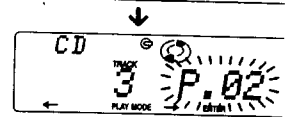
4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish selecting tracks, press ④ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Notes
- "*Wait*" appears in the display while the unit is reading the data.
- "*Mem Full*" appears in the display when you try to enter more than 24 tracks into a program.

Playing the stored program

1 Press (SHIFT).

2 Press ④ (PLAY MODE) repeatedly until "PGM" appears.

3 Press ⑤ (→) repeatedly until "PGM on" appears.

```
CD    © (5)        PGM
      PGM on
      PLAY MODE →
```

Program Play starts.

4 Press (SHIFT).

To return to the normal playback mode, select "PGM off" in step 3 above.

Note
"Not ready" appears in the display if a disc that has no programed tracks is inserted.

Erasing an entire program

1 Press (SHIFT), then press ④ (PLAY MODE) for two seconds. .

```
CD    © (5)
   7  :P.08:
      PLAY MODE
```

2 Press ② (←) repeatedly until "DEL" appears.

```
DEL      © (5)
  :-PGM ALL-:
      PLAY MODE  ↔
```

3 Press ⑥ (ENTER) for two seconds.

```
PGM   © (5)
      NO Data
      PLAY MODE  →   ENTER
```

The entire program is erased.

4 When you finish erasing programs, press ④ (PLAY MODE) for two seconds.

5 Press (SHIFT).

Adding tracks to a program

1 Press (SHIFT), then press ④ (PLAY MODE) for two seconds.

```
CD    © (5)
   7  :P.08:
      PLAY MODE
```

2 Press ② (←) or ⑤ (→) to select the track slot number where you want to insert a track.

Track slot number

```
:CD:    © (5)
   2  P.05:
      PLAY MODE/ ↔
```

3 Push the SEEK/AMS control up or down to select the track you want to insert.

4 Press ⑥ (ENTER) momentarily to enter the track.
The current track is inserted in that slot number and the succeeding tracks shift down.

5 To continue inserting tracks, repeat steps 2 through 4.

Note
*Once all 24 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert more tracks.*

6 When you finish inserting tracks, press ④ (PLAY MODE) for two seconds.

7 Press (SHIFT).

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Erasing tracks in a program

1 Press (SHIFT), then press ④ (PLAY MODE) for two seconds.

```
 CD   ©
  2  :P.07:
```

2 Press ② (←) or ⑤ (→) to select the track you want to erase.

Track slot number

```
:CD:
   3  P.06
```

The track currently registered in slot 6.

3 Press ⑥ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.

```
DEL  ©
 - --  P.06
```

↓

```
:CD:
  1  P.06:
```
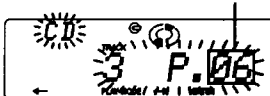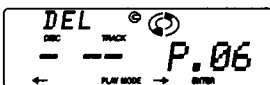
4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press ④ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Radio

Memorizing stations automatically
— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorizes them in the order of their frequencies. You can store up to 10 stations on each band (FM1, FM2, and AM).

Caution
When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly to select the tuner.
Each time you press (SOURCE), the source changes as follows:
CD ←→ TUNER

2 Press (MODE) repeatedly to select the band.
Each time you press (MODE), the band changes as follows:

```
┌──→ FM1 ──────→ FM2 ──────→ AM ──┐
└─────────────────────────────────┘
```
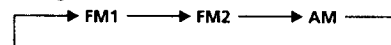
3 Press (SHIFT), then press ④ (PLAY MODE) repeatedly until "B.T.M" appears.

4 Press ⑤ (→).
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds when the setting is stored.

5 Press (SHIFT).

Notes
- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons will retain their former setting.*
- *When a number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Memorizing only the desired stations

You can preset up to 20 FM stations (10 for FM1 and 10 for FM2), and up to 10 AM stations in the order of your choice.

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band (FM1, FM2, or AM).

3 Push the SEEK/AMS control up or down to tune in the station you want to store on the number button.

4 Press and hold the desired number button ((1) to (10)) until "MEM" appears.
The number button indication appears in the display.

Note
If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorized stations

1 Press (SOURCE) repeatedly to select the tuner.

2 Press (MODE) repeatedly to select the band (FM1, FM2, or AM).

3 Press the number button ((1) to (10)) momentarily where the desired station is stored.

If you cannot tune in a preset station

Push the SEEK/AMS control up or down momentarily to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Push the SEEK/AMS control up or down repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press (SHIFT), then press (4) (PLAY MODE) repeatedly until "Local" (local seek mode) is displayed. Then press (5) (→) to select "Local on." Press (SHIFT).
Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, push the SEEK/AMS control up or down and hold until the desired frequency appears (manual tuning).

If FM stereo reception is poor
— Monaural Mode

1 Press (SHIFT), then press (4) (PLAY MODE) repeatedly until "Mono" appears.

2 Press (5) (→) repeatedly until "Mono on" appears.
The sound improves, but becomes monaural ("ST" disappears).

3 Press (SHIFT).

To return to the normal mode, select "Mono off" in step 2 above.

If interference occurs during FM reception

If there is interference from neighboring stations, follow the steps below and select "Narrow". If interference is not a problem, select "Wide" to maximize signal reception and improve sound quality or "IF Auto "to switch between "Narrow" and "Wide" automatically.
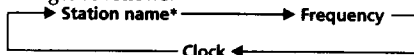
1 Press (SHIFT) during FM reception.

2 Press ④ (PLAY MODE) repeatedly until "IF Auto" appears.

3 Press ⑤ (→) repeatedly to select desired setting.

```
   ┌────────► IF Auto ────────► Wide ─────┐
   └──────────── Narrow ◄─────────────────┘
```

4 Press (SHIFT).

Changing the display item

Each time you press (DSPL/SA), the item changes as follows:

```
   ┌────► Station name* ──────────► Frequency ─┐
   └──────────────── Clock ◄───────────────────┘
```

* If the station name is not stored, "NO Name" appears in the display for one second.

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 25).

Storing the station names
—Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

Storing the station names

1 Tune in a station whose name you want to store.

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2 Press (LIST) for two seconds.

```
┌─────────────────────┐
│  FM 1    (T)         │
│                      │
│  ←   ╬─ ── ── ── ──  │
└─────────────────────┘
```
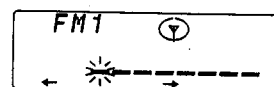
3 Enter the characters.
   ❶ Rotate the dial clockwise to select the desired characters.
   (A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → - → * → / → \ → > → < → . → _)

```
┌─────────────────────┐
│  FM 1    (T)         │
│     ┊ 'L             │
│  ←   ┊  →            │
└─────────────────────┘
```

   If you rotate the dial counterclockwise, the characters appear in the reverse order.
   If you want to put a blank space between characters, select "_" (under-bar).

   ❷ Press ⑤ (→) after locating the desired character.
   The flashing cursor moves to the next space.

```
┌─────────────────────┐
│  FM 1    (T)         │
│   Ы ┊                │
│  ←   ┊  →            │
└─────────────────────┘
```
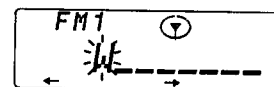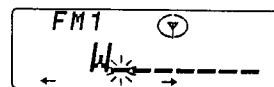
   If you press ② (←), the flashing cursor moves to the left.

   ❸ Repeat steps ❶ and ❷ to enter the entire name.

4 To return to normal radio reception, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the station name

Press (DSPL/SA) during radio reception.
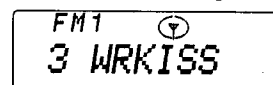
```
┌─────────────────────┐
│  FM 1    (T)         │
│  3 WRKISS            │
│                      │
└─────────────────────┘
```

Each time you press (DSPL/SA), the item changes as follows:

```
   ┌────► Station name* ──────► Frequency ─┐
   └──────────────── Clock ◄───────────────┘
```
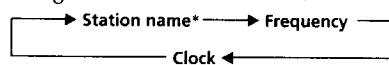
* If the station name is not stored, "NO Name" appears in the display for one second.

Erasing the station name

1 Tune in any station and press (LIST) for two seconds.

2 Press (DSPL/SA) for two seconds.
The station name appears in the display.

3 Rotate the dial to select the name you want to erase.

4 Press ⑥ (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

5 Press (LIST) for two seconds.
The unit returns to normal radio reception mode.

Locating a station by name — List-up

1 Press (LIST) momentarily..
The name assigned to the current station appears in the display.

```
┌─────────────────────┐
│  LST      ⊙         │
│ 3 WRKISS            │
│               ENTER │
└─────────────────────┘
```

2 Press (LIST) repeatedly until you find the desired station.

3 Press ⑥ (ENTER) to tune in the desired station.

Note
After the station name or frequency has been displayed for five seconds, the display return to normal mode. To turn off the display, press (DSPL/SA).

Voice Drive
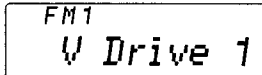
You can register an appropriate vocal phrase for any source including CD/MD*, and the radio station. Once the registration is completed, you can request that source just by pronouncing the registered vocal phrase for it towards the supplied microphone. This unit provides 12 "V Drive" boxes for accommodating registered phrases.

* When you connect to a CD/MD changer with a PGM (Program memory) function, you can request a disc in the CD/MD changer.

Use the rotary commander to control this function.

Selecting a "V Drive" box for registration

1 Play a CD or MD, or tune in a radio station that you wish to register a phrase for.

2 Press and hold (TALK) on the rotary commander until "V Drive" appears.

```
┌─────────────────────┐
│ FM 1                │
│ V Drive 1           │
└─────────────────────┘
```
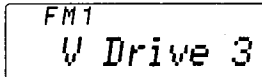
Note
When the unit enters the setting mode, the disc playback or the radio reception will be suspended.

Tip
If the "V Drive" box selected in step 2 already has a registered phrase, the source corresponding to it will be played or tuned in.

3 Select a "V Drive" box for registration by adjusting the SEEK/AMS control either on the unit or the rotary commander.

```
┌─────────────────────┐
│ FM 1                │
│ V Drive 3           │
└─────────────────────┘
```

Tip
If you select an already registered box number, the registered source will be played or tuned in to.

15

Registering a vocal phrase

1 Once all the steps of "Selecting a "V Drive" box for registration" are completed, press ⬭TALK⬭ on the rotary commander .

2 After you hear the unit's vocalized instruction "Please speak now.", pronounce a desired phrase toward the supplied microphone.
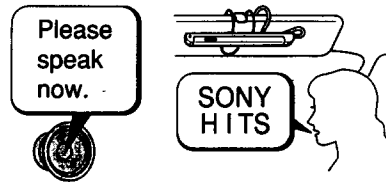
3 After the vocalized instruction "Please repeat.", pronounce the same phrase again.
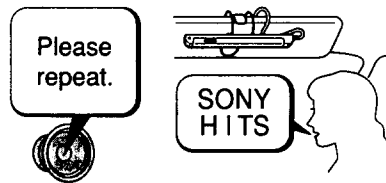
4 After another vocalized instruction "Please repeat.", pronounce the same phrase one more time.
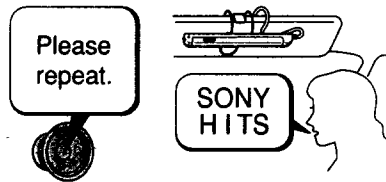
The unit records the vocal phrase in this step in order to identify the registered phrase later. When the unit answers "OK!", the registration is completed.

Notes
- *Do not attempt to register while driving, as this may create a traffic hazard.*
- *Be sure to reply after the unit's vocalized instruction.*
- *When a beep sound is heard, the registration failed. In this case, repeat the same process starting from step 1.*
- *Do not use phrases of similar pronunciation such as "Sony POPS 1" and "Sony POPS 2", because the unit may not be able to distinguish the difference.*
- *After you hear the unit's vocalized instruction, reply within three seconds.*

Tips
- *When you register the phrases, pronounce them clearly and loudly to make it easier for the unit to recognize them.*
- *Registration should be made while the car is parked with the engine running so that the unit will recognize your voice more easily when you are driving.*
- *Though the vocalized instructions are in English, any language can be used for registration.*
- *The volume of the vocalized instructions can be adjusted on the unit or by the rotary commander.*

16

Requesting a registered source

You can request a registered source while listening to other sources or during the clock display.

1 Press (TALK) on the rotary commander.

```
FM1      ⊙
Please Spe
```
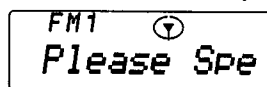
2 After you hear the unit's vocalized instruction "Please speak now.", pronounce the registered phrase such as the disc name or the radio station.

```
Please
speak
now.
```
```
SONY
HITS
```
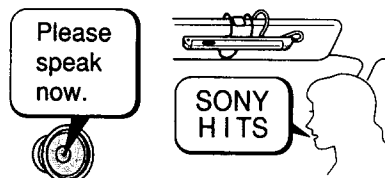
3 When the unit successfully recognized the phrase:
The unit will play the disc or tune in the radio station.

When the unit fails to recognize the phrase:
The unit replies "Please speak again." In this case, repeat the same registered phrase.

Notes
- When the unit fails to recognize the phrase three times, a beep sounds and the unit returns to the previous source. In this case, repeat the same process starting from step 1.
- If it is noisy outside the car, the unit may not recognize the registered phrase. In this case, close the window and try again.
- If you are far from the microphone, speak louder or come nearer to the microphone.

Tips
- If you do not reply within three seconds after the vocalized instruction, the unit replies "Please speak now."
- When you are requesting a registered source, pronounce clearly and loudly to make it easier for the unit to recognise.
- When the unit has difficulty recognizing the phrase, register the vocal phrase again.

Voice Memo

Voice Memo is a function that allows you to record a voiced memorandum, such as the name of a song heard on a radio program or an idea which comes to mind. You can record up to six voice memos with this function. Note that each voice memo must be within 15 seconds.

```
MEMO 6        MEMO 1
MEMO 5          MEMO 2
MEMO 4        MEMO 3
```
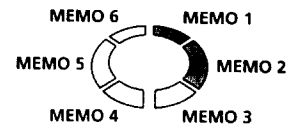
You can record or play back the voice memo when listening to any source or during the clock display.

Use the rotary commander to control this function.

Recording a voice memo

1 Press (REC) on the rotary commander and voice your memorandum toward the supplied microphone.

```
FM1
MEMO1 REC
```

2 The recording is completed by pressing (REC) again or leaving the unit untouched for 15 seconds.

Notes
- The voice memos are recorded as "MEMO 1", "MEMO 2", etc.,...in the order they are recorded.
- When a beep sounds and "MEMO FULL" appears, it means there is no room for additional voice memos. In such a case, erase the older recorded voice memos before recording new ones.

17

Playing back the voice memo

1 Press (PLAY) on the rotary commander.
The playback starts from MEMO 1.

```
FM1 ......?......
≥MEMO1 PLAY≥
  /////////  \\\\\\\
```

2 Select the desired voice memo using the SEEK/AMS control.

```
FM1 ......?......
≥MEMO3 PLAY≥
  /////////  \\\\\\\
```

3 Adjust the volume on the main unit or by using the rotary commander.
The unit automatically returns to the previous source after playing back all of the voice memos.

To interrupt the playback of a voice memo

Press (PLAY) on the rotary commander.
Playback stops and the unit automatically returns to the previous source.

Erasing the voice memo

1 Play back the voice memo to be erased.

2 Press and hold (PLAY) on the rotary commander until a beep sound is heard.

The voice memo will be erased and the numbers of succeeding voice memos will move up respectively.

Erasing
"MEMO 3" → "MEMO-4" moves up
            to "MEMO 3."
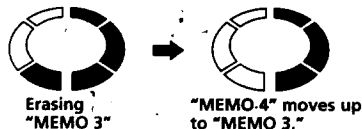
Setting the equalizer

You can select an equalizer curve for eight music types (Rock, Vocal, Jazz, Classic, Groove, Talk, Techno, and Custom).
You can store and adjust the equalizer settings for frequency and level.

Selecting the equalizer curve

1 Press (SOURCE) to select a source (tuner, CD, or MD).
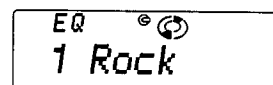
2 Press (SOUND) repeatedly until "EQ" appears.

```
EQ   ©©
1 Rock
```

3 Rotate the dial to select the desired equalizer curve.

Rock ←→ Vocal ←→ Jazz ←→ Classic ←→ Groove ←→
Talk ←→ Techno ←→ Custom ←→ off

To cancel the equalizing effect, select "off."
After three seconds, the display return to the normal playback mode.

Adjusting the equalizer curve

1 Press (SOUND) for two seconds.

2 Press (SOUND) repeatedly until "EQ" appears.

3 Rotate the dial to select the desired equalizer curve.

Rock ←→ Vocal ←→ Jazz ←→ Classic ←→ Groove ←→
Talk ←→ Techno ←→ Custom ←→ off

4 Press ⑤ (→).

```
≥EQ≥   ©©
1      62Hz
←      →  ENTER
```

18
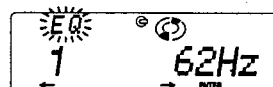
5 Press ② (←) or ⑤ (→) to select the desired frequency.

62 Hz ←→ 157 Hz ←→ 396 Hz ←→ 1.00 kHz ←→
2.51 kHz ←→ 6.34 kHz ←→ 16.0 kHz

6 Rotate the dial to select the desired level.
If you want to change the equalizer curve to be adjusted at this time, press ② (←) repeatedly until the equalizer curve name appears to return to step 3.
To restore the factory-set equalizer curve, press ⑥ (ENTER) for two seconds.

7 Press (SOUND) for two seconds.

Selecting the listening position

You can set a delayed time for the sound to reach the listeners from the speakers.
In this way, the unit can simulate a natural sound field so that you feel as if you are in the centre of the sound field no matter where you sit in the car.
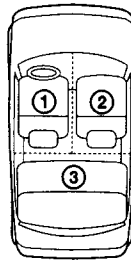
Display window	Center of sound field
POS All	Normal setting (① + ② + ③)
POS Front	Front part (① + ②)
POS Front-R	Right front (②)
POS Front-L	Left front (①)
POS Rear	Rear part (③)
POS off	Cancel

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (SOUND) repeatedly until "POS" appears.

```
POS  ⊕ ⟨⟩
1 All
```
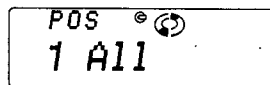
3 Rotate the dial to select the desired listening position.

All ←→ Front ←→ Front-R ←→ Front-L ←→ Rear ←→ off

The listening positions appear in the order shown above.

To cancel the POS mode, select "off."
After three seconds, the display returns to the normal playback mode.

Adjusting the listening position

1 Press (SOUND) for two seconds.

2 Press (SOUND) repeatedly to select "POS" appears.

3 Press ⑤ (→).

```
POS  ⊕ ⟨⟩
L------||------R
←        →   ENTER
```

4 Rotate the dial to adjust the center of the sound field to the left or right.
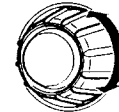
Center moves to the L (left).

Center moves to the R (right).

To restore the factory-set listening position, press ⑥ (ENTER) for two seconds.

5 Press ⑤ (→).

```
POS  ⊕ ⟨⟩
R------||------F
←        ENTER
```

6 Rotate the dial to adjust the centre of the sound field to the front or rear.
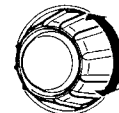
Center moves to the R (rear).

Center moves to the F (front).

To restore the factory-set listening position, press ⑥ (ENTER) for two seconds.

7 Press (SOUND) for two seconds.
When the effect setting is complete, the normal playback mode appears.

19

Selecting a soundstage menu

— Dynamic Soundstage Organizer (DSO)

If your speakers are installed into the lower part of the doors, the sound will come from below and may not be clear.
The DSO (Dynamic Soundstage Organizer) function creates a more ambient sound as if there were speakers in the dashboard (virtual speakers).
You can adjust the sound to your own preferences to reproduce the ambient qualities of a concert hall or night club.

Soundstage menu

Memory presets	Meaning
1 E-STD	Virtual speakers (standard)
2 ES-CLUB	Virtual speakers (standard) + initial reflection
3 ES-LIVE	Virtual speakers (standard) + reverberation
4 E-WIDE	Virtual speakers (wide)
5 EW-CLUB	Virtual speakers (wide) + initial reflection
6 EW-LIVE	Virtual speakers (wide) + reverberation
7 LIVE	Reverberation
8 CLUB	Initial reflection
off	Cancel

Image of virtual speakers

*1 Standard
*2 Wide
*3 Acutual speakers position (lower part of the front doors).

Selecting the DSO

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (SOUND) repeatedly until "DSO" appears.

```
DSO  ©⑤
1 E-STD
```

3 Rotate the dial to select the desired DSO mode.

1 E-STD ←→ 2 ES-CLUB ←→ 3 ES-LIVE ←→ 4 E-WIDE ←→ 5 EW-CLUB ←→ 6 EW-LIVE ←→ 7 LIVE ←→ 8 CLUB ←→ off

To cancel the DSO mode, select "off."
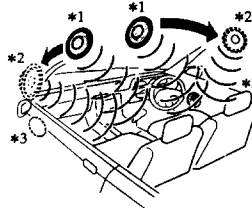After three seconds, the display returns to the normal playback mode.

Adjusting the DSO mode

1 Press (SOUND) for two seconds.

2 Rotate the dial to select the desired DSO mode.

1 E-STD ←→ 2 ES-CLUB ←→ 3 ES-LIVE ←→ 4 E-WIDE ←→ 5 EW-CLUB ←→ 6 EW-LIVE ←→ 7 LIVE ←→ 8 CLUB ←→ off

3 Press ⑤ (→).

```
DSO  ©⑤
1 Effect 2
```

4 Rotate the dial to select the desired effect level.

Effect 1 ←→ Effect 2 ←→ Effect 3 ←→ Effect 4 ←→ Effect 5

If you want to change the DSO mode to be adjusted at this time, press ② (←) to return to step 2.
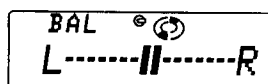To restore the factory-set equalizer curve, press ⑥ (ENTER) for two seconds.

5 Press (SOUND) for two seconds.
When the effect setting is complete, the normal playback mode appears.

20

Adjusting the balance (BAL)

You can adjust the sound balance from the left and right speakers.

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (SOUND) repeatedly until "BAL" appears.

```
BAL  ©(5)
L-------||-------R
```

3 Rotate the dial to adjust the balance.
After three seconds, the display returns to the normal playback mode.

Adjusting the fader (FAD)

Normally, with the DSP mode on, the volume of the output sound from the front and rear speakers is lowered automatically to improve the efficiency of the listening position setting. If you want to raise the front and rear speaker volume, adjust the fader.

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (SOUND) repeatedly to select the "F" for the front speakers or "R" for the rear speakers.

```
F    ©(5)
O-------||-------O
```
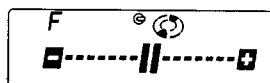
3 Rotate the dial to adjust the volume of front/rear speakers.:
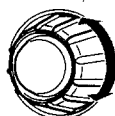
Decreases speaker volume

Decreases speaker volume

After three seconds, the display returns to the normal playback mode.

Selecting the cut-off frequency of the front/rear speakers

1 Press (SOUND) for two seconds.

2 Press (SOUND) repeatedly to select "F" or "R."

3 Press (5) (→) .

```
F    ©(5)
   HPF  off
```

4 Rotate the dial to select the cut-off frequency.

off ←→ 78 Hz ←→ 99 Hz ←→ 125 Hz ←→ 157 Hz ←→ 198 Hz

If you want to adjust the volume of the front or rear speakers at this time, press (2) (←) and rotate the dial as in step 2 of "Adjusting the fader (FAD)."

5 Press (SOUND) for two seconds.
When the effect setting is complete, the normal playback mode appears.

21

Adjusting the volume of the subwoofer(s)

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (SOUND) repeatedly until "SUB" appears.

```
┌──────────────────────────┐
│  SUB   ® ⟨⟩              │
│  ▣------||------▣        │
└──────────────────────────┘
```

3 Rotate the dial to adjust the volume.
After three seconds, the display returns to the normal playback mode.

Tip
*When you rotate the dial to turn the volume all the way down, "Sub ATT" appears and the cutout frequency of the subwoofer is disabled.*

Adjusting the frequency of the subwoofer(s)

To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency (see the diagram below), the subwoofer(s) will output only low frequency signals so you can get a clearer sound image.

62 78 99 125 157 Frequency (Hz)
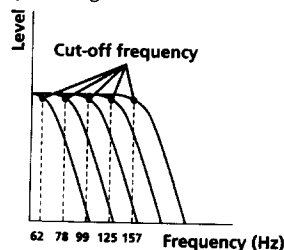
1 Press (SOUND) for two seconds.

2 Press (SOUND) repeatedly until "SUB" appears.

3 Press ⑤ (↔).

```
┌──────────────────────────┐
│  ⟩SUB⟨  ® ⟨⟩            │
│    LPF  off             │
│  ←                       │
└──────────────────────────┘
```

4 Rotate the dial to select the desired cut-off frequency.
The cut-off frequency in the display changes as follows:

62 Hz ↔ 78 Hz ↔ 99 Hz ↔ 125 Hz ↔ 157 Hz ↔ off

If you want to adjust the volume of the subwoofer(s), press ② (←) and rotate the dial as in step 3 of "Adjusting the volume of the subwoofer(s)."

5 Press (SOUND) for two seconds.
After the frequency setting is complete, the display returns to the normal playback mode.

Listening to each programme source in its registered DSO
— Source Sound Memory (SSM)

Each time you return to the same source, you can hear the same DSO menu and equalizer curve registered for that source, even after changing the programme source or turning the unit off and then on again.

22

Using the rotary commander

The rotary commander works by pressing buttons and/or rotating controls.
You can also control the optional CD or MD units with the rotary commander.

By pressing buttons (the SOURCE and MODE buttons)
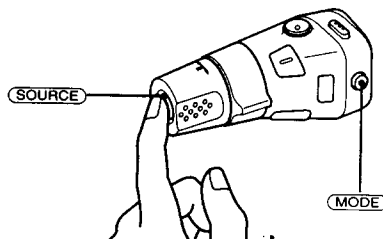
Each time you press (SOURCE), the source changes as follows:

TUNER → CD → MD* → TV*

* When an optional MD unit, TV tuner or Video is connected.

Pressing (MODE) changes the operation in the following ways:

• Tuner: FM1 → FM2 → AM
• CD unit: CD1 → CD2 → ...
• MD unit: MD1 → MD2 → ...
• TV/Video: TV → Video1 → Video2 → ...

By rotating the control (the SEEK/AMS control)
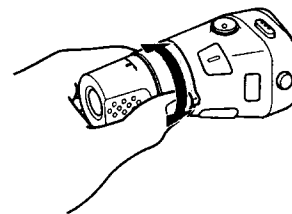
Rotate the control momentarily and release it to:
• Locate a specific track on a disc. Rotate and hold the control until you locate the specific point in a track, then release it to start playback.
• Tune in stations automatically. Rotate and hold the control to tune in a specific station.

By pushing in and rotating the control (the PRESET/DISC control)
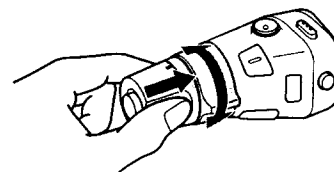
Push in and rotate the control to:
• Receive the stations memorized on the number buttons.
• Change the disc.

Other operations

Rotate the VOL control to adjust the volume.

Press (ATT) to attenuate the sound.

Press (OFF) to turn off the unit.

23

Press (SOUND) to
adjust the volume
and sound menu.

Press (LIST) to display the
memorized names.
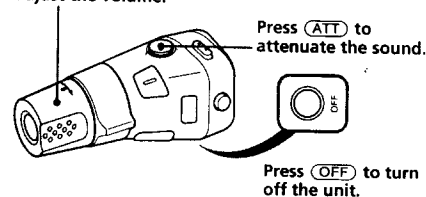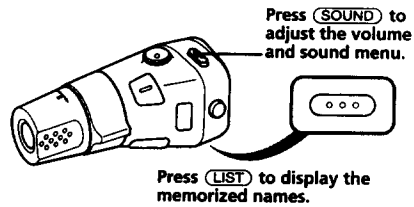
Press (REC) to record a voice memo.

Press and hold
(TALK) to select a
"V Drive" box for
registration.
Press to :
• Register a vocal
  phrase.
• Request a
  registered source.
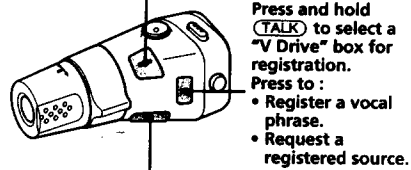
Press (PLAY) to play back the
voice memo.
Press and hold (PLAY) to erase
the voice memo.

Changing the operative direction

The operative direction of controls is factory-
set as in the illustration below.

To increase

To decrease
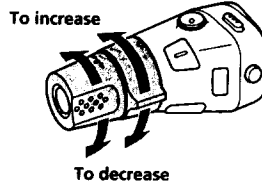
If you need to mount the rotary commander on
the right side of the steering column, you can
reverse the operative direction.
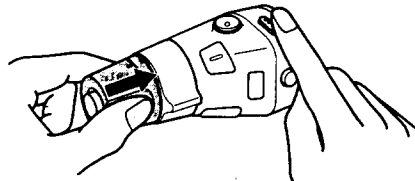
Press (SOUND) for two seconds while
pushing the VOL control.

Tip
You can control the operative direction of controls
with the unit (page 25).

Attenuating the sound

Press (ATT) on the rotary commander or
wireless remote.
"ATT on" appears momentarily.

To restore the previous volume level, press
(ATT) again.

Tip
When the interface cable of a car telephone is
connected to the ATT lead, the unit decreases the
volume automatically when a telephone call comes
in (Telephone ATT function).

Changing the sound and display settings

The following items can be set:
- Clock (page 7).
- D.Info (Dual Information) - to display the clock and the play mode at the same time (ON) or to display the information alternately (OFF).
- SA (Spectrum Analyzer) - to change the display pattern of the equalizer display.
- Amber/Green - to change the illumination color to amber or green.
- Dimmer - to change the brightness of the display.
  — Select "Auto" to dim the display only when you turn the lights on.
  — Select "on" to dim the display.
  — Select "off" to deactivate Dimmer.
- Contrast - to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.
- Voice guide function for vocalized comments.
  — Select "Voice 1" to minimize the volume of the guide.
  — Select "Voice 2" to increase the volume than "Voice 1."
  — Select "Voice 3" to maximize the volume of the guide.
  — Select "Voice off" to deactivate Voice guide.
- Beep - to turn on or off the beeps.
- RM (Rotary Commander) - to change the operative direction of the controls of the rotary commander.
  — Select "norm" to use the rotary commander in the factory-set position.
  — Select "rev" when you mount the rotary commander on the right side of the steering column.
- M.dspl (Motion Display) - to turn the motion display to 1, 2, or off.
- English/French - to change the vocalized comments of the voice guide and the display language to English or French.
- A.Scrl (Auto Scroll) (page 9, 26).

1 Press (SHIFT).

2 Press ③ (SET UP) repeatedly until the desired item appears.

Each time you press ③ (SET UP), the item changes as follows:

Clock → D.Info* → SA* → Amber/Green → Dimmer → Contrast → Voice* → Beep → RM → M.dspl → English/French → A.Scrl*

* When you have not tune the station or there is no CD/MD being played, these items will not appear.

Note
The display item will differ depending on the source.

3 Press ⑤ (→) to select the desired setting (for example: on or off).
For the "Contrast" setting, pressing ⑤ (→) makes the contrast higher, and pressing ② (←) makes the contrast lower.

4 Press (SHIFT).
After the mode setting is complete, the display returns to normal playback mode.

Changing the equalizer display

You can change the equalizer display according to the music you are listening to.

Selecting the display pattern

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (DSPL/SA) for two seconds repeatedly to select the desired display pattern.

SA 1 → SA 2 → SA 3 → SA 4 → SA 5 → SA 6 → SA auto → SA off

25

You can control up to seven CD and MD units with this unit.
If you connect an optional CD unit with the CD TEXT function, the CD TEXT information will appear in the display when you play a CD TEXT disc.
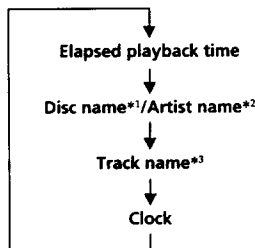
Playing a CD or MD

1 Press (SOURCE) repeatedly to select the CD or MD.

2 Press (MODE) until the desired unit appears.
CD/MD playback starts.

When a CD/MD unit is connected, all the tracks play from the beginning.

Changing the display item
Each time you press (DSPL/SA) during CD, CD TEXT, or MD playback, the item changes as follows:

```
          ↓
   Elapsed playback time
          ↓
  Disc name*¹/Artist name*²
          ↓
      Track name*³
          ↓
        Clock
```

*¹ If you have not labeled the disc or there is no disc name prerecorded on the MD, "NO D.Name" appears in the display.
*² If you play a CD TEXT disc, the artist name appears in the display after the disc name. (Only for CD TEXT discs with the artist name.)
*³ If the track name of a CD TEXT disc or MD is not prerecorded, "NO T.Name" appears in the display.

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 25).

26

You can label CD and CD TEXT discs with a personalized name using the disc memo function, refer to "Labeling a CD" (page 30). However, if you use personalized labels, they will always take priority over the original CD TEXT information when such information is displayed.

Tips
* *If the name of the MD or CD TEXT disc is too long, you can scroll it across the display by pressing (SHIFT), then ② (←).*
* *If you want to display the original CD TEXT information after labeling the CD TEXT disc with a personalized name, press (SHIFT), then ⑤ (→).*

Automatically scrolling a disc name
— Auto Scroll
If the disc name/artist name or track name on a CD TEXT disc or MD exceeds 10 characters and the Auto Scroll function is on, the following automatically scrolls on the display:
* *The disc name appears when the disc has changed (if the disc name is selected).*
* *The track name appears when the track has changed (if the track name is selected).*

If you press (DSPL/SA) to change the display item, the disc or track name of the MD or CD TEXT disc is scrolled automatically whether you set the function on or off.

1 During playback, press (SHIFT).

2 Press ③ (SET UP) repeatedly until "A.Scrl" appears.

3 Press ⑤ (→) to select "A.Scrl on."

4 Press (SHIFT).

To cancel Auto Scroll, select "A.Scrl off" in step 3 above.

Note
For some CD TEXT discs with a lot of characters, the following cases may happen:
— Some of the characters are not displayed.
— Auto Scroll does not work.

Locating a specific track
— Automatic Music Sensor (AMS)

During playback, push the SEEK/AMS control up or down once for each track you want to skip.

To locate succeeding tracks

To locate preceding tracks

Locating a specific point in a track
— Manual Search

During playback, push the SEEK/AMS control up or down and hold.
Release when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number
— Direct Disc Selection

Press the number button ((1) to (10)) that corresponds with the desired disc number.
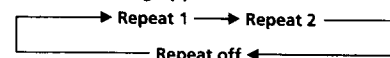The desired disc in the current unit begins playback.

Playing tracks repeatedly
— Repeat Play

You can select:
• Repeat 1 - to repeat a track.
• Repeat 2 - to repeat a disc.

1 During playback, press (SHIFT).

2 Press (7) (REP) repeatedly until the desired setting appears.

```
┌────────► Repeat 1 ──► Repeat 2 ────┐
└──────────── Repeat off ◄───────────┘
```

Repeat Play starts.

3 Press (SHIFT).

To return to normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order — Shuffle Play

You can select:
• Shuf 1 - to play the tracks on the current disc in random order.
• Shuf 2 - to play the tracks in the current unit in random order.
• Shuf All - to play all the tracks in random order.

1 During playback, press (SHIFT).

2 Press (8) (SHUF) repeatedly until the desired setting appears.

```
┌──► Shuf 1 ──► Shuf 2 ──► Shuf All* ┐
└──────────── Shuf off ◄─────────────┘
```
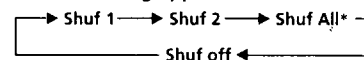
Shuffle Play starts.

* *"Shuf All" is only available when you connect one or more optional CD units, or when you connect two or more optional MD units.*

3 Press (SHIFT).

To return to normal playback mode, select "Shuf off" in step 2 above.

27

Creating a program

— Program Memory (CD/MD unit with the program memory function)

You can play tracks in the order you want by making your own program. You can select up to 24 tracks for a program. You can store the programs in memory.

1 During CD/MD playback, press (SHIFT), then press ④ (PLAY MODE) for two seconds.

Program edit mode

```
CD2  ©⊕⟍⟍⎟⎟⁄⁄⁄
2  3  -:P.01:-
```

If you have labeled the disc, the bank edit mode appears. Press ④ (PLAY MODE) to display "P" above.

2 Select the track you want.
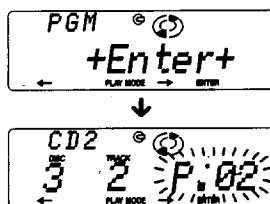   **❶** Press (SOURCE) repeatedly to select CD or MD.

   ❷ Press (MODE) repeatedly to select the unit.

   ❸ Press (SHIFT), then press the number button to select the disc.

   ❹ Press (SHIFT).

   ❺ Push the SEEK/AMS control up or down to select the track.

3 Press ⑥ (ENTER) momentarily.

```
PGM  ©⊕
  +Enter+
```

↓

```
CD2  ©⊕⟍⟍⎟⎟⁄⁄⁄
3  2  -:P.02:-
```

4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press ④ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Notes
- "*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.
- "*Mem Full*" appears in the display when you try to enter more than 24 tracks into a program.

Playing the stored program

Changing the disc order in the unit will not affect program memory play.

1 Press (SHIFT).

2 Press ④ (PLAY MODE) repeatedly until "PGM" appears.

3 Press ⑤ (→) repeatedly until "PGM on" appears.

```
CD2  ©⊕        PGM
  PGM on
```

Program Play starts.

4 Press (SHIFT).

To return to normal playback mode, select "PGM off" in step 3 above.

Notes
- If you press a number button during program memory play, program memory play is interrupted, and playback of the selected disc starts.
- "NO Data" appears in the display if no track is stored in the program.
- If a track stored into the program memory is not in the disc magazine, the track will be skipped.
- When the disc magazine contains no tracks stored into the program memory, or when the program information has not been loaded yet, "Not ready" appears.

Erasing an entire program

1 Press (SHIFT), then press ④ (PLAY MODE) for two seconds.

```
CD2  ᵍ ⓐ\\\ ///
4  7 ⁻P.08⁻
   PLAY MODE /ı∫mın\\\
```

If you have labeled the disc, the bank edit mode appears. Press ④ (PLAY MODE) to display "P" above.

2 Press ② (←) repeatedly until "DEL" appears.

```
DEL\\\ ᵍⓐ ////
⁻PGM ALL⁻
 /// PLAY MODE ⊢⊣ \\\
```

3 Press ⑥ (ENTER) for two seconds.

```
PGM  ᵍⓐ
   NO Data
←     PLAY MODE →   ENTER
```

The entire program is erased.

4 When you finish erasing programs, press ④ (PLAY MODE) for two seconds.

5 Press (SHIFT).

Adding tracks to a program

1 Press (SHIFT), then press ④ (PLAY MODE) for two seconds.

```
CD2  ᵍ ⓐ\\\ ///
4  7 ⁻P.08⁻
   PLAY MODE /ı∫mın\\\
```

If you have labelled the disc, the bank edit mode appears. Press ④ (PLAY MODE) to display "P" above.

2 Press ② (←) or ⑤ (→) to select the track slot number where you want to insert a track.

Track slot number

```
CD2 ᵍⓐ ///
3  2 P.05
  /// PLAY MODE ⊢⊣ \\\
```

3 Push the SEEK/AMS control up or down to select the track you want to insert.

4 Press ⑥ (ENTER) momentarily to enter the track.
The current track is inserted in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note
*Once all 24 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert more tracks.*

5 When you finish inserting tracks, press ④ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Erasing tracks in a program

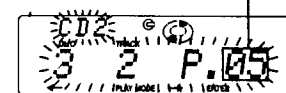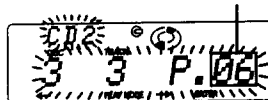**1** Press (SHIFT), then press ④ (PLAY MODE) for two seconds.

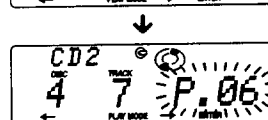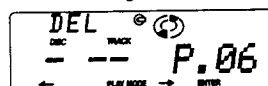If you have labelled the disc, the bank edit mode appears. Press ④ (PLAY MODE) to display "P" above.

2 Press ② (←) or ⑤ (→) to select the track you want to erase.

Track slot number

The track currently registered in slot 6.

3 Press ⑥ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.

4 To continue erasing tracks, repeat steps 2 and 3.

**5** When you finish erasing tracks, press ④ (PLAY MODE) for two seconds.

6 Press (SHIFT).

Labeling a CD
— Disc Memo (CD unit with the custom file function)

You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate the disc by name (page 31) and select the specific tracks for playback (page 32).

1 Play the CD and press (LIST) for two seconds.
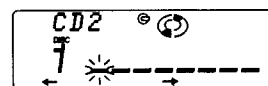
2 Enter the characters.
❶ Rotate the dial clockwise to select the desired characters.
(A → B → C → ⋯ Z → 0 → 1 → 2 → ⋯ 9 → + → - → ⁎ → / → \ → > → < → . → _)
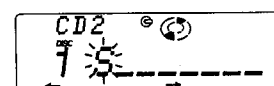
If you rotate the dial counterclockwise, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press ⑤ (→) after locating the desired character.
The flashing cursor moves to the next space.
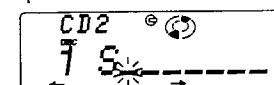
If you press ② (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to normal CD playback mode, press (LIST) for two seconds.

Tip
To erase or correct a name enter "_" (under-bar) for each character.

30

Displaying the disc memo name

Press (DSPL/SA) during CD or CD TEXT disc playback.

```
CD2  ℗ ⓒ
1 SCHUBERT
```

Each time you press (DSPL/SA) during CD or CD TEXT disc playback, the item changes as follows:

```
          ↓
Elapsed playback time
          ↓
   Disc memo name
          ↓
    Track name*
          ↓
       Clock
```
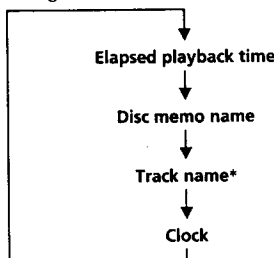
* If you connect an optional CD unit with the CD TEXT function, the CD TEXT information will appear in the display when you playback a CD TEXT disc.

After if you select the desired item, the display will be automatically change to the Motion Display mode after a few seconds.
In the Motion Display mode, all the above items are scrolled in the display one by one in order.

Tip
The Motion Display mode can be turned off. (See "Changing the sound and display settings" on page 25).

Erasing the disc memo

1 Press (SOURCE) repeatedly to select CD.

2 Press (MODE) repeatedly to select the CD unit.

3 Press (LIST) for two seconds.

4 Press (DSPL/SA) for two seconds.

5 Rotate the dial to select the name you want to erase.

6 Press ⑥ (ENTER) for two seconds.
The name is erased.
Repeat steps 5 and 6 if you want to erase other names.

7 Press (LIST) for two seconds.
The unit returns to normal CD playback mode.

Note
When the personalized label is erased, the original CD TEXT information will appear in the display.

Locating a disc by name
— List-up (CD unit with the custom file function or MD unit)

You can use this function for discs that have been assigned a custom name. For more information on disc names, refer to "Labeling a CD"'(page 30).

1 Press (LIST) momentarily.
The name assigned to the current disc appears in the display.

```
LST  ℗ ⓒ
1 SCHUBERT
```

When you assign a disc memo label to a CD TEXT disc, it takes priority over the original CD TEXT information.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press ⑥ (ENTER) to play back the disc.

Notes
- *After a disc name has been displayed for five seconds, the display returns to normal playback mode. To turn off the display, press (DSPL/SA).*
- *The track names are not displayed during MD or CD TEXT disc playback.*
- *If there are no discs in the magazine, "NO Disc" appears in the display.*
- *If a disc has not been assigned a custom file, "********" appears in the display.*
- *If the disc information has not been read by the unit, "?" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information appears only in upper case. There are also some letters which cannot be displayed (during MD or CD TEXT disc playback).*

31

Selecting specific tracks for playback
— Bank (CD unit with the custom file function)

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

1 Start playing the disc and press (SHIFT). Then press ④ (PLAY MODE) for two seconds.

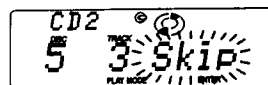Bank edit mode.

```
CD2
5  1:Play
```

Note
If you have not labeled the disc, the bank edit mode does not appear and the program edit mode appears. To return to normal playback mode, press ④ (PLAY MODE) for two seconds.

2 Push the SEEK/AMS control up or down to select the track number you want to skip and press ⑥ (ENTER).

```
CD2
5  3:Skip
```

The indication changes from "Play" to "Skip." If you want to return to"Play," press ⑥ (ENTER) again.

3 Repeat step 2 to set the "Play" or "Skip" mode on all the tracks.

4 Press ④ (PLAY MODE) for two seconds. The unit returns to normal CD playback mode.

5 Press (SHIFT).

Notes
* *You can set the "Play" and "Skip" mode on up to 24 tracks.*
* *You cannot set the "Skip" mode on all the tracks.*

Playing the specific tracks only

You can select:
* Bank on - to play the tracks with the "Play" setting.
* Bank inv (Inverse) - to play the tracks with the "Skip" setting.

1 During playback, press (SHIFT), then press ④ (PLAY MODE) repeatedly until "Bank" appears.

2 Press ⑤ (→) to repeatedly until the desired setting appears.

→ Bank on → Bank inv → Bank off ⌐

```
CD2
Bank on
```

Playback starts from the track following the current one.

3 Press (SHIFT).

To return to normal playing mode, select "Bank off" in step 2 above.

TV/Video

You can connect an optional TV tuner and TV monitor with this unit.

Watching the TV

1 Press (SOURCE) repeatedly until "TV" appears.

2 Push the SEEK/AMS control up or down to select the desired TV band.

Watching a video

1 Press (SOURCE) repeatedly until "TV" appears.

2 Press (MODE) repeatedly to select "Video 1."
Play back the video.

Note
"Video 2" appears if the VIDEO 2 terminal of the TV monitor is selected.

Memorizing TV channels automatically

The unit selects the TV channels with the strongest signals and memorizes them in the order of their frequency.

Caution
When tuning in a station while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly until "TV" appears.

2 Press (SHIFT), then press (4) (PLAY MODE) repeatedly until "Auto mem" appears.

3 Press (5) (→).
The unit stores TV channels in the order of their frequencies on the number buttons. A beep sound and the setting is stored.

4 Press (SHIFT).

Notes
• The unit does not store TV channels with weak signals. If only a few TV channels are received, some number buttons will remain empty.
• When a preset number is indicated in the display, the unit starts storing TV channels from the one currently displayed.

Memorizing only the desired TV channels

You can store up to 10 channels on the number buttons in the order of your choice.

1 Press (SOURCE) repeatedly until "TV" appears.

2 Push the SEEK/AMS control up or down to tune in the TV program you want to store on the number button.

3 Press and hold the desired number button ((1) to (10)) until you hear a beep tone.
The number button indication appears in the display.

Note
If you try to store another program on the same number button, the previously stored program will be erased.
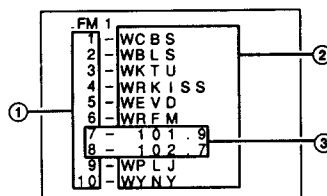
33

Storing the TV channel names

Follow the steps in "Storing the station names" (page 14).

Displaying the TV or radio station names

Press (LIST) momentarily during TV or radio reception.

Example: When receiving the FM1 band

① Preset number
② Stored station names
③ Frequencies*

* If the name of a station is not stored, the frequency of the station will be displayed instead.

Notes
- It may take some time before all indications appear in the display.
- The TV monitor does not appear during list display.
- The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode (page 35).
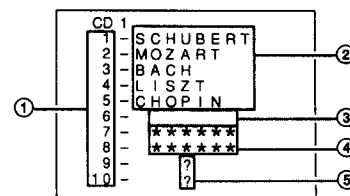
Turning off the display

During radio reception, press (LIST) again.
During TV reception, the list display on the TV monitor will automatically turn off after a few seconds.

Displaying the information stored on discs

Press (LIST) momentarily during CD/MD playback.

Example: When CD unit 1 is selected.

① Disc numbers
② Titles stored as custom files
③ No disc is loaded*1
④ No stored titles*2
⑤ TOC information has not been identified yet*3

*1 A blank space is displayed next to a disc numbers representing empty slots in the disc magazine.
*2 If a title is not registered in the custom file, "******" is displayed.
*3 If the disc information has not been read yet, "?" is displayed.

Notes
- It may take some time until all indications appear in the display.
- The TV program does not appear during list display.
- The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode.
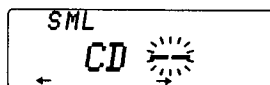
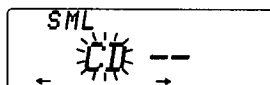### Turning off the display

Press (LIST) again.

Watching the TV or video while listening to a CD or MD — Simultaneous Play

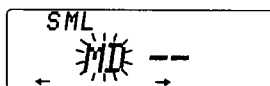The simultaneous play function does not work while you are listening to the radio.
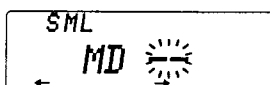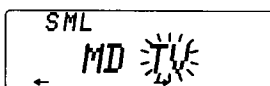
1 Press (SOURCE) for two seconds.

```
SML
  CD  ;'';
       '·'
```

2 Press ② (←).

```
SML
  CD  --
```

3 Press (SOURCE) repeatedly to select a CD or MD.

```
SML
  MD  --
```

4 Press ⑤ (→).

```
SML
  MD  ;'';
       '·'
```

5 Press (SOURCE) repeatedly to select a TV or video.

```
SML
  MD  TV
```

6 Press (SOURCE) for two seconds.
Simultaneous Play starts.

If you want to change the sound to CD or MD while watching the TV or video with its sound, please follow the steps, but press ⑤ (→) in step 2 and press ② (←) in step 4.

Returning to normal mode

To cancel the CD or MD, follow the steps above and select "– –" in step 3.

To cancel the TV or video, follow the steps above and select "– –" in step 5.

Note
If you press the EJECT button on a CD/MD unit while the unit is in simultaneous play mode, Simultaneous Play is canceled.

Additional Information

Precautions

• If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
• If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
• If no sound comes from the speaker systems, set the fader control to the center position.
• If your car is equipped with a power antenna, it will extend automatically while the unit is operating.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

Notes on handling CDs
A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows.
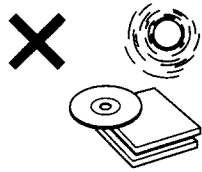Handle the disc by its edge. To keep the disc clean, do not touch the surface.

Do not stick paper or tape on the labeled surface.

Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car.

Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the center out.
Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

Note on moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the CD player. Should this occur, the unit will not operate properly. In this case, remove the disc and wait for about an hour until the moisture evaporates.

Maintenance

Fuse replacement

When replacing the fuse, be sure to use one that matches the amperage described on the fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

Fuse (10 A)
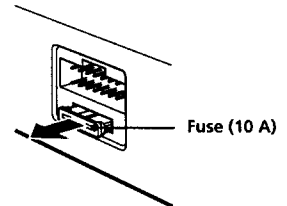
Warning

Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, open the front panel by pressing (OPEN), then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.
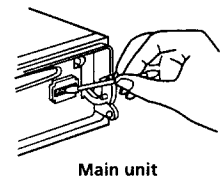
Main unit
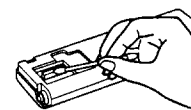
Back of the front panel

Notes
• For safety, before cleaning the connectors, turn off the engine and remove the key from the ignition switch.
• Never touch the connectors directly with your fingers or any metal device.

Dismounting the unit

1 Press the clip inside the front cover with a thin screwdriver, and gently pry the front cover free.
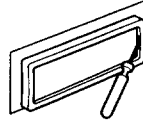
2 Repeat step 1 on the left side.
The front cover is removed.
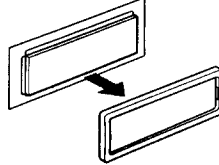
3 Use a thin screwdriver to push in the clip on the left side of the unit, then pull out the left side of the unit until the catch clears the mounting.

4 Repeat step 3 on the right side.

5 Slide the unit out of the mounting.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

19 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other specifications

CD player section

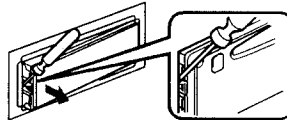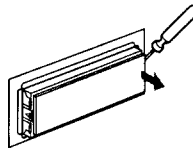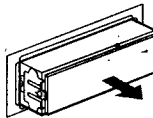|	
System	Compact disc digital audio system
Signal-to-noise ratio	98 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 µW*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
	50 dB at 200 kHz
Signal-to-noise ratio	65 dB (stereo),
	68 dB (mono)
Harmonic distortion at 1 kHz	
	0.7 % (stereo),
	0.4 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Outputs	Line outputs (3)
	Power antenna relay control lead
	Power amplifier control lead
	Telephone ATT control lead
	Illumination control lead
Equalizer	±12 dB; f_0 = 62 Hz, 157 Hz, 396 Hz, 1.0 kHz, 2.51 kHz, 6.34 kHz, 16 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 182 mm (7 1/8 × 2 × 7 1/4 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 163 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.4 kg (3 lb. 1 oz.)
Supplied accessories	Rotary commander (1) Wireless remote RM-X47 Microphone (1) Parts for installation and connections (1 set) Front panel case (1)
Optional accessories	BUS cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m)
Optional equipment	CD changer CDX-828 (10 discs), CDX-727 (10 discs) MD changer MDX-65 Other CD/MD changers with the Sony-Bus system Source selector XA-C30 TV tuner XT-40V, etc.

Design and specifications are subject to change without notice.

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Troubleshooting guide

The following checklist will help you remedy the problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

General

Problem	Cause/Solution
No sound.	• Cancel the ATT function. • Set the fader control to the center position for speaker systems. • Rotate the dial in a clockwise direction to adjust the volume.
The contents of the memory have been erased.	• The power cord or battery has been disconnected. • The reset button has been pressed. → Store again into the memory.
Indications do not appear in the display.	Remove the front panel and clean the connectors. See "Cleaning the connectors" (page 36) for details.

CD/MD playback

Problem	Cause/Solution
A disc cannot be loaded.	• Another CD is already loaded. • The CD is forcibly inserted upside down or in the wrong way (MD).
Playback does not begin.	Defective MD or dusty CD.
A disc is automatically ejected.	The ambient temperature exceeds 50°C (122°F).
The operation buttons do not function.	Press the reset button.
The sound skips due to vibration.	• The unit is installed at an angle of more than 60°. • The unit is not installed in a sturdy part of the car.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorise the correct frequency. • The broadcast signal is too weak.
Automatic tuning is not possible.	The broadcast signal is too weak. → Use manual tuning.
The stations cannot be received. The sound is hampered by noises.	Connect an power antenna control lead (blue) or accessory power supply lead (red) to the power supply lead of a car's antenna booster. (When your car has built-in FM/AM antenna in the rear/side glass only.)
The "ST" indication flashes.	• Tune in the frequency accurately. • The broadcast signal is too weak. → Set to the Mono mode (page 13).
Interference occurs during FM reception.	The Wide mode is selected. → Set to the Narrow or IF Auto mode (page 14).

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Voice drive/Voice memo

Problem	Cause/Solution
Registering a vocal phrase or recording a voice memo is not possible.	The microphone is not connected properly. → Plug it in completely.
The unit often fails or does not succeed in recognizing the vocal phrase.	• The microphone may not be able to receive the driver's voice depending on the installation location and direction due to the microphone's sharp directivity. → Install the microphone properly. Be sure to adjust the SONY mark facing towards the driver's mouth. • The unit incorporates outside noises as a part of the vocal phrase. → Close the window while registering a vocal phrase. • You can make it easier for the unit to recognise the vocal phrase by pronouncing the phrase clearly and loudly. • The phrase that you pronounced is different from the registered one. → Pronounce the registered phrase.
Vocalized instructions are not heard while the voice drive function or the voice memo function is engaged in another operation.	The volume setting is at the lowest. → Adjust the volume with the dial of the unit.

DSP functions

Problem	Cause/Solution
No sound, or sound is too low.	The volume of the speakers may have been automatically lowered in order to maximize the effect of the listening position adjustment. → Rotate the dial to adjust the balance. The speaker balance can be set separately for DSP on mode and DSP off mode (page 21).

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Error displays (when an optional CD/MD unit is connected)

The following indications will flash for about five seconds, and an alarm sound will be heard.

Display	Cause	Solution
NO Mag	The disc magazine is not inserted in the CD/MD unit.	Insert the disc magazine in the CD/MD unit.
NO Disc	No disc is inserted in the CD/MD unit.	Insert discs in the CD/MD unit.
NG Discs	A CD/MD cannot play because of some problem.	Insert another CD/MD.
Error*[1]	A CD is dirty or inserted upside down.*[2]	Clean or insert the CD correctly.
	An MD does not play because of some problem.*[2]	Insert another MD.
Blank*[1]	No tracks have been recorded on an MD.*[2]	Play an MD with tracks recorded on it.
PushReset	The CD/MD unit cannot be operated because of some problem.	Press the reset button of the unit.
Not Ready	The lid of the MD unit is open or MDs are not inserted properly.	Close the lid or insert the MDs properly.
HighTemp	The ambient temperature is more than 50°C (122°F).	Wait until the temperature goes down below 50°C (122°F).

*[1] When an error occurs during playback of an MD or CD, the disc number of the MD or CD does not appear in the display.
*[2] The disc number of the disc causing the error appears in the display.

If the above-mentioned solutions do not help improve the situation, consult your nearest Sony dealer.

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Sony online   http://www.world.sony.com/

1-3-866-780-11 (1

SONY.

FM/AM
Compact Disc
Player

Installation/Connections

CDX-C8850

I

Parts list

The numbers in the list are keyed to those in the instructions.

① ② ③ ④

⑤ ⑥ ⑦ ⑧
×4 ×2

⑨ ⑩ ⑪ ⑫
×2

⑬
×3
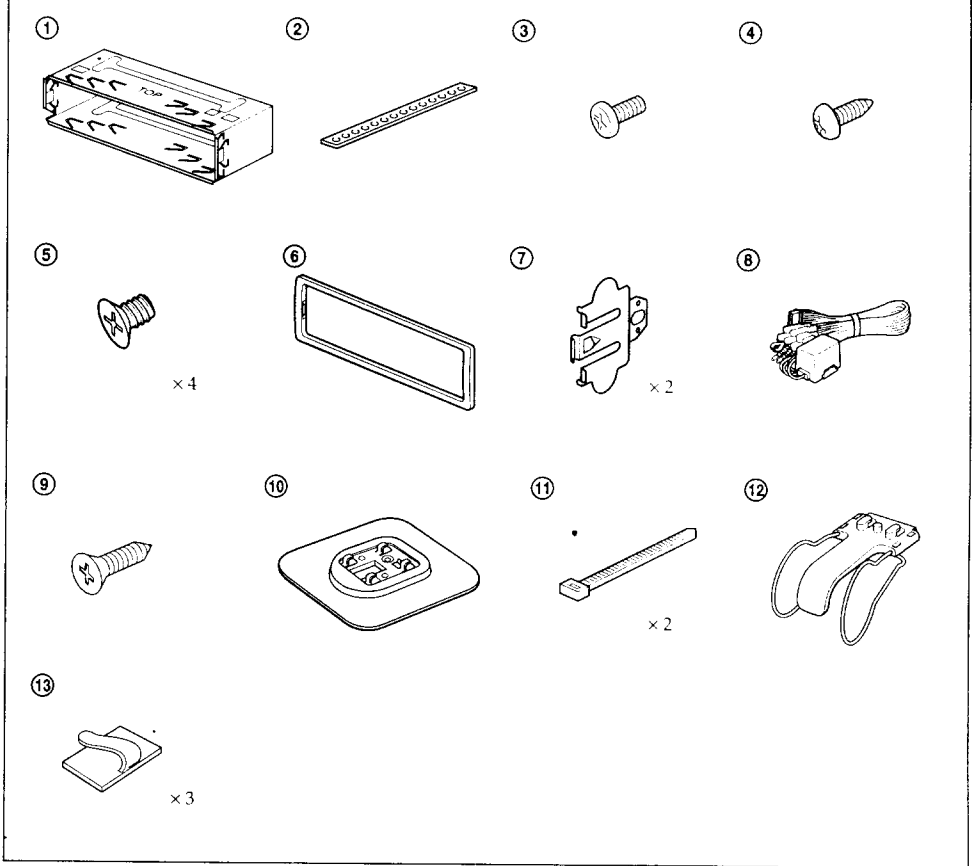
Caution

Cautionary notice for handling the bracket ①.
Handle the bracket carefully to avoid injuring your fingers.
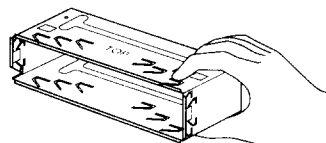
Connections

Cautions

• This unit is designed for negative ground 12 V DC operation only.
• Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
• Connect the **yellow** and **red** power input leads only after all other leads have been connected.
• Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
• **Run all ground wires to a common ground point.**
• Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.
• The use of optical instruments with this product will increase eye hazard.
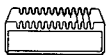
Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turned off the engine.
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

Reset button

When the installation and connections are over, be sure to press the reset button with a ball-point pen, etc.

Connection diagram

Equipment used in illustrations (not supllied)

Note
For connecting two or more changers, the source selector XA-C30 (optional) is necessary.

Front speaker

Rear speaker

Active subwoofer

TV monitor

Power amplifier

CD/MD changer

I

BUS AUDIO IN

BUS CONTROL IN

II

BUS AUDIO IN

TV tuner unit

BUS CONTROL IN

Source selector

III

SUB OUT

BUS AUDIO IN

LINE OUT FRONT

Source selector

BUS CONTROL IN

LINE OUT REAR

Connection example

Supplied with the XA-C30

Source selector XA-C30

Supplied with the CD/MD changer

RCA pin cord (not supplied)

FRONT LINE OUT

BUS AUDIO IN

from car antenna

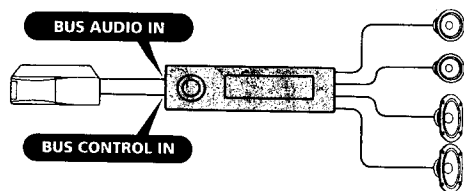*After connecting, bundle up the connecting cord of the rotary commander with other connecting cords of the audio equipment by attaching the supplied cramper ⑪. Be sure to leave some slack in the connecting cord between the plug and the cramper.*

MIC IN

L
R

RCA pin cord (not supplied)

Rotary commander

Fuse (10 A)

REAR LINE OUT

REMOTE IN

⑧

SUB OUT

Filter

Microphone

BUS CONTROL IN

To AMP REMOTE IN of an optional power amplifier. This connection is only for amplifiers. Connecting any other system may damage the unit.

AMP REM   Blue/white striped   Sky blue   ATT

to the interface cable of a car telephone

Max. supply current 0.3 A

ILLUMINATION

Orange/white striped ⊕
→ to a car's illumination signal
Be sure to connect the black ground to it first.

Left ◎ — White

Blue   **ANT REM**
Max. supply current 0.1 A

to the power antenna control lead or power supply lead of antenna booster amplifier
Notes
• *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
• *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

Right ◎ — Gray

Red ⊕

to the +12 V power terminal which is energized at the accessory position of the ignition key switch
Notes
• *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.*
Be sure to connect the black ground to it first.
• *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

Left — Green

Yellow ⊕
Choke coil box

to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first.

Right — Purple

Black ⊖

to a metal point of the car
First connect the black ground lead, then connect the yellow and red power input reads.

Notes on the control and power supply leads
• *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
• *When your car has a built-in FM/AM antenna in the rear/side glass, it is necessary to connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
• *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
• *Before connecting the speakers, turn the unit off.*
• *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
• *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
• *Do not attempt to connect the speakers in parallel.*
• *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Installation

Precautions

• Do not tamper with the four holes on the upper surface of the unit. They are used for tuner adjustments to be made only by service technicians.
• Choose the installation location carefully so that the unit will not interfere with the driver while driving.
• Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.

• Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 60°.

## How to detach and attach the front panel

Before installing the unit, detach the front panel.

To detach A

Before detaching the front panel, be sure to press (OFF) first. Then press (OPEN) to open the front panel, then slide the front panel to the right side, and pull out the left side of the front panel.
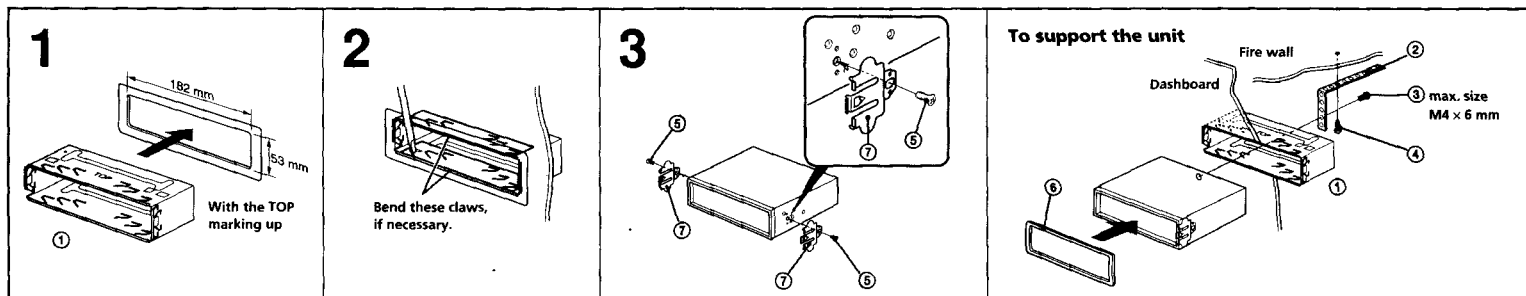
To attach B

Place the hole ⓐ in the front panel onto the spindle ⓑ on the unit as illustrated, then push the left side in.
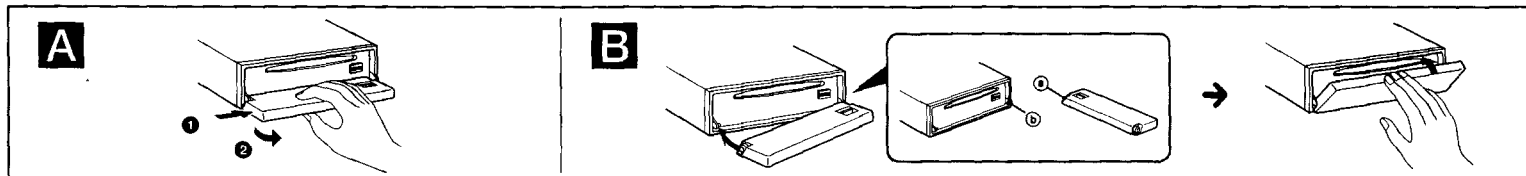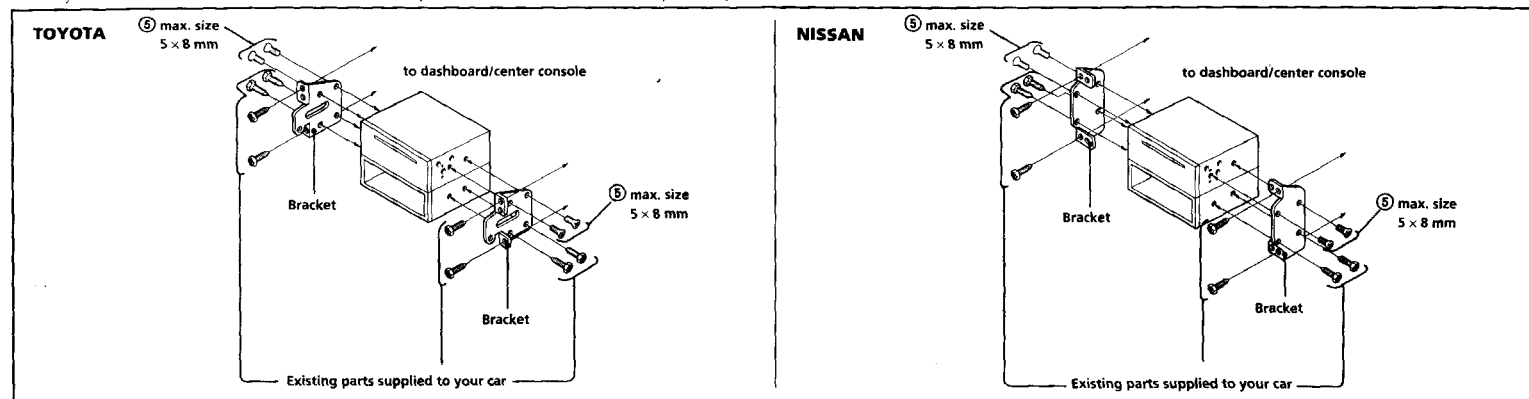

Mounting example

Installation in the dashboard

Mounting the unit in a Japanese car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

TOYOTA
⑤ max. size 5 × 8 mm
to dashboard/center console
Bracket
⑤ max. size 5 × 8 mm
Bracket
— Existing parts supplied to your car —

NISSAN
⑤ max. size 5 × 8 mm
to dashboard/center console
Bracket
⑤ max. size 5 × 8 mm
Bracket
— Existing parts supplied to your car —

Note
To prevent malfunction, install only with the supplied screws ⑤.

Microphone precautions

• This system receives the driver's voice from the microphone. When it is noisy outside your car, shut the windows. Engine noise may also prevent the system from recognizing the driver's voice.
• This microphone can receive sound from one direction only (directional microphone). Therefore it is important to install the microphone properly to ensure the driver's voice will be received.
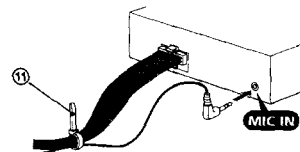
Installing the Microphone

Installation location

• Install the microphone underneath the sun visor in the pushed up position. Note that when the sun visor is lowered, the microphone will not receive the driver's voice.
• Install the microphone so that the arrow on the top points toward the driver.
• Consult your dealer when installing in a car equiped with an airbag system or shock absorbing device.

Secure the microphone's cord as illustrated.

Be sure to leave some slack in the microphone's cord between the microphone and the holder ⑫ as illustrated.

Install the microphone so that the arrow on the top points toward the driver.

Secure the microphone's cord as illustrated.

Secure the wire to the window frame so that the wire does not interfere with driving. Before attaching the clamp ⑬, clean the surface thoroughly.

Connecting the microphone

1 Connect the microphone to the MIC jack of the audio equipment. (Refer to the "Installation/Connectinos" supplied with the unit as well.)
2 Bndle up the connecting cord of the microphone with other connecting cords of the audio equipment by attaching the supplied cramper ⑪. Be sure to leave some slack in the connecting cord between the plug and the cramper.

MIC IN

When you leave your car

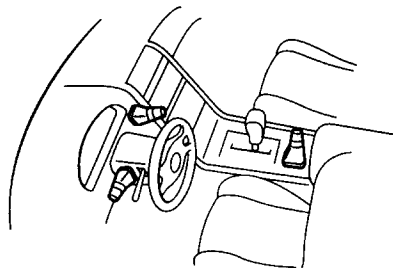Hide the microphone over the sun visor as illustrated to protect the microphone from being stolen.

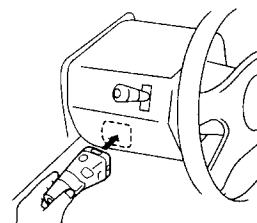

⑫   Microphone
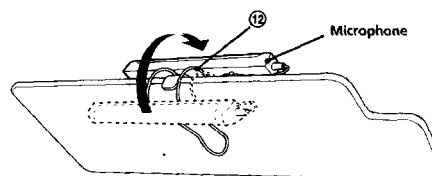
Installing the rotary commander

Example of a mounting location

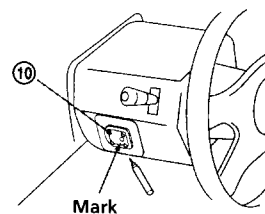|	
1	**Choose the exact location for the rotary commander to be mounted, then clean the mounting surface.** Dirt or oil impair the adhesive strength of the double-sided adhesive tape.
2	**Mark the position for the supplied screw.** Use the screw hole on the mounting hardware ⑩ to mark the position. If you cannot make the mounting hardware ⑩ fit easily, cut the mounting hardware ⑩ to fit the steering wheel column cover.
3	**Remove the steering wheel column cover, and drill 2 mm (³/₃₂ in.) diameter hole where you have marked.**
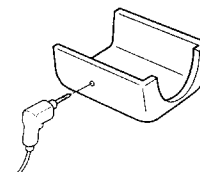
4 Warm the mounting surface and the double-sided adhesive tape on the mounting hardware ⑩ to the temperature of 20°C (68°F) to 30°C (86°F), and attach the mounting hardware to the mounting surface by applying even pressure. Then screw it down with the supplied screw ⑨.

Attach a piece of heavy duty tape, etc. on the other side of the mounting surface to cover the protruding tip of the screw so that they will not interfere with any electrical cables, etc. inside the steering wheel column.

Heavy duty tape, etc.
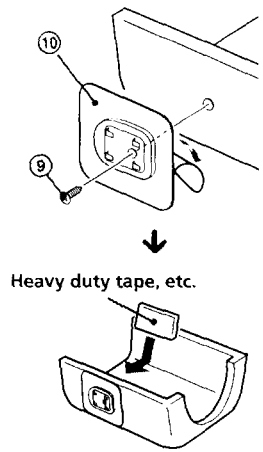
5 After installing the steering wheel column cover, attach the rotary commander to the mounting hardware by aligning the four holes on the bottom of the rotary commander with the four catches on the mounting hardware and sliding the rotary commander until it locks into place as illustrated.

Note
If you are mounting the rotary commander to the steering wheel column, make sure that the protruding tip of the screw on the inner surface of the column does not in any way hinder or interfere with the movement of the rotating shaft, operative parts of the switches or the electrical cables, etc. inside the column.

Holes